

B. Claims

The following is a complete listing of the claims, and replaces all earlier versions and listings.

1-27. (Cancelled)

28. (Currently Amended) A testing method using a DNA microarray comprising:

a reaction step of hybridizing a DNA microarray with a solution of DNA including genes suitable for personal identification and disease-related genes extracted from a specimen of a particular subject, wherein the DNA microarray includes a first DNA probe group that reacts with the genes suitable for personal identification and is capable of being used to identify a subject and a second DNA probe group that reacts with the disease-related genes and is capable of being used to check a health condition of the subject, wherein the DNA microarray has two separated areas, one of which is an area where probes of the first DNA probe group are arranged, and another of which is an area where probes of the second DNA probe group are arranged;

a reading step of reading a hybridization pattern obtained in the reaction step;

a first acquiring step of acquiring first identification information for identifying the particular subject by analyzing a pattern obtained from the first DNA probe group in the hybridization pattern read in the reading step;

a second acquiring step of acquiring second identification information of the particular subject recorded in a medical information card owned by the particular subject; and

a comparing step of comparing the first and second identification information.

29. (Previously Presented) The method according to claim 28, further comprising:

a generation step of generating test information by analyzing a pattern obtained from the second DNA probe group in the hybridization pattern read in the reading step; and

a recording step of recording the test information generated in the generation step into the medical information card when the first identification information coincides with the second identification information in the comparing step.

30. (Currently Amended) A testing method using a DNA microarray comprising:

a reaction step of hybridizing a DNA microarray with a solution of DNA including genes suitable for personal identification and disease-related genes extracted from a specimen of a particular subject, wherein the DNA microarray includes a first DNA probe group that reacts with the genes suitable for personal identification and is capable of being used to identify a subject and a second DNA probe group that reacts with the disease-

related genes and is capable of being used to check a health condition of the subject, wherein the DNA microarray has two separated areas, one of which is an area where probes of the first DNA probe group are arranged, and another is an area where probes of the second DNA probe group are arranged;

a reading step of reading a hybridization pattern obtained in the reaction step;

an identification step of identifying the particular subject based on identification information acquired by analyzing a pattern obtained from the first DNA probe group in the hybridization pattern read in the reading step; and

a generation step of generating test information by analyzing a pattern obtained from the second DNA probe group in the hybridization pattern read in the reading step.

31. (Previously Presented) The method according to claim 30, further comprising a storing step of storing the test information into storing means,

wherein the storing step, when the identification information acquired in the acquisition step is not stored in the storing means, determines that the particular subject is a new subject and stores the test information in association with the acquired identification information, and

wherein the storing step, when the identification information acquired in the acquisition step is stored in the storing means, stores the test information in association with the identification information that has been already stored in the storing means.

32. (Currently Amended) A testing method using a DNA microarray comprising:

- a reading step of reading a hybridization pattern on a DNA microarray containing a first DNA probe group, which can be used to distinguish a subject providing a specimen, and a second DNA probe group, which can be used to test the specimen from the subject;
- an acquisition step of analyzing a hybridization state of each DNA probe obtained from the first DNA probe group in the hybridization pattern read in the reading step to acquire a first identification information that distinguishes the subject;
- a comparison step of comparing the first identification information acquired in the acquisition step with a second identification information stored in a storage device;
- a generation step of analyzing a hybridization state of each DNA probe obtained from the second DNA probe group in the hybridization pattern read in the reading step and generating test information only if a comparison result of the comparison step indicates that the first identification information and the second identification information match; and
- an output step of outputting the test information so that the test information is stored on [[to]] a computer readable storage medium.

33. (Currently Amended) A testing method using a DNA microarray, comprising:

a first reading step of reading a first hybridization pattern of a first DNA probe group, which can be used to distinguish a subject providing a specimen, on a DNA microarray, wherein the DNA microarray containing the first DNA probe group and a second DNA probe group, which can be used to test the specimen from the subject;

an acquisition step of analyzing a hybridization state of each DNA probe obtained from the first DNA probe group in the hybridization pattern read in the first reading step to acquire a first identification information that distinguishes the subject;

a comparison step of comparing the first identification information acquired in the acquisition step with a second identification information stored in a storage device;

a second reading step of reading a second hybridization pattern of the second DNA probe group only if a comparison result of the comparison step indicates that the first identification information and the second identification information match;

a generation step of analyzing a hybridization state of each DNA probe obtained from the second DNA probe group in the hybridization pattern read in the second reading step and generating test information; and

an output step of outputting the test information so that the test information is stored on [[to]] a computer readable storage medium.